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<151> 2003-03-26

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<151> 2003-07-09

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<170> PatentIn version 3.0

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gcc tgg agc ctg tct ttt ctg ttc tcc att ccc acc ctg atc ata ttt Ala Trp Ser Leu Ser Phe Leu Phe Ser Ile Pro Thr Leu Ile Ile Phe 160 165 170	650
ggg aag agg aca ctg tcc aac ggt gaa gtg cag tgc tgg gcc ctg tgg Gly Lys Arg Thr Leu Ser Asn Gly Glu Val Gln Cys Trp Ala Leu Trp 175 180 185 190	698
cct gac gac tcc tac tgg acc cca tac atg acc atc gtg gcc ttc ctg Pro Asp Asp Ser Tyr Trp Thr Pro Tyr Met Thr Ile Val Ala Phe Leu 195 200 205	746
gtg tac ttc atc cct ctg aca atc atc agc atc atg tat ggc att gtg Val Tyr Phe Ile Pro Leu Thr Ile Ile Ser Ile Met Tyr Gly Ile Val 210 215 220	794
atc cga act att tgg att aaa agc aaa acc tac gaa aca gtg att tcc Ile Arg Thr Ile Trp Ile Lys Ser Lys Thr Tyr Glu Thr Val Ile Ser 225 230 235	842
aac tgc tca gat ggg aaa ctg tgc agc agc tat aac cga gga ctc atc Asn Cys Ser Asp Gly Lys Leu Cys Ser Ser Tyr Asn Arg Gly Leu Ile 240 245 250	890
tca aag gca aaa atc aag gct atc aag tat agc atc atc atc att ctt Ser Lys Ala Lys Ile Lys Ala Ile Lys Tyr Ser Ile Ile Ile Ile Leu 255 260 265 270	938
gcc ttc atc tgc tgt tgg agt cca tac ttc ctg ttt gac att ttg gac Ala Phe Ile Cys Cys Trp Ser Pro Tyr Phe Leu Phe Asp Ile Leu Asp 275 280 285	986
aat ttc aac ctc ctt cca gac acc cag gag cgt ttc tat gcc tct gtg Asn Phe Asn Leu Leu Pro Asp Thr Gln Glu Arg Phe Tyr Ala Ser Val 290 295 300	1034
atc att cag aac ctg cca gca ttg aat agt gcc atc aac ccc ctc atc Ile Ile Gln Asn Leu Pro Ala Leu Asn Ser Ala Ile Asn Pro Leu Ile 305 310 315	1082
tac tgt gtc ttc agc agc tcc atc tct ttc ccc tgc agg gtc atc cgt Tyr Cys Val Phe Ser Ser Ser Ile Ser Phe Pro Cys Arg Val Ile Arg 320 325 330	1130
ctc cgt cag ctc cag gag gct gcg cta atg ctc tgc cct caa cga gag	1178

Leu Arg Gln Leu Gln Glu Ala Ala Leu Met Leu Cys Pro Gln Arg Glu
 335 340 345 350
 aac tgg aag ggt act tgg cca ggt gta cct tcc tgg gct ctt cca agg 1226
 Asn Trp Lys Gly Thr Trp Pro Gly Val Pro Ser Trp Ala Leu Pro Arg
 355 360 365
 tgacagctct caccctgtgc tgcaggtggc cctgtgcctg gtgccacttc tcaactgctta 1286
 ccagggcaca aggacaccag tgggtcccaa aatgggtcac agcaggatgg cctgcatcag 1346
 attcaccagg gagggctata agaaggcaga c 1377

<210> 7

<211> 366

<212> PRT

<213> Homo sapiens

<400> 7

Met Pro Ala Asn Phe Thr Glu Gly Ser Phe Asp Ser Ser Gly Thr Gly
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 Gln Thr Leu Asp Ser Ser Pro Val Ala Cys Thr Glu Thr Val Thr Phe
 20 25 30
 Thr Glu Val Val Glu Gly Lys Glu Trp Gly Ser Phe Tyr Tyr Ser Phe
 35 40 45
 Lys Thr Glu Gln Leu Ile Thr Leu Trp Val Leu Phe Val Phe Thr Ile
 50 55 60
 Val Gly Asn Ser Val Val Leu Phe Ser Thr Trp Arg Arg Lys Lys Lys
 65 70 75 80
 Ser Arg Met Thr Phe Phe Val Thr Gln Leu Ala Ile Thr Asp Ile Asn
 85 90 95
 Trp Arg Phe Thr Gly Asp Phe Thr Ala Pro Asp Leu Val Cys Arg Val
 100 105 110
 Val Arg Tyr Leu Gln Val Val Leu Leu Tyr Ala Ser Thr Tyr Val Leu
 115 120 125
 Val Ser Leu Ser Ile Asp Arg Tyr His Ala Ile Val Tyr Pro Met Lys
 130 135 140

Phe Leu Gln Gly Glu Lys Gln Ala Arg Val Leu Ile Val Ile Ala Trp
 145 150 155 160

Ser Leu Ser Phe Leu Phe Ser Ile Pro Thr Leu Ile Ile Phe Gly Lys
 165 170 175

Arg Thr Leu Ser Asn Gly Glu Val Gln Cys Trp Ala Leu Trp Pro Asp
 180 185 190

Asp Ser Tyr Trp Thr Pro Tyr Met Thr Ile Val Ala Phe Leu Val Tyr
 195 200 205

Phe Ile Pro Leu Thr Ile Ile Ser Ile Met Tyr Gly Ile Val Ile Arg
 210 215 220

Thr Ile Trp Ile Lys Ser Lys Thr Tyr Glu Thr Val Ile Ser Asn Cys
 225 230 235 240

Ser Asp Gly Lys Leu Cys Ser Ser Tyr Asn Arg Gly Leu Ile Ser Lys
 245 250 255

Ala Lys Ile Lys Ala Ile Lys Tyr Ser Ile Ile Ile Ile Leu Ala Phe
 260 265 270

Ile Cys Cys Trp Ser Pro Tyr Phe Leu Phe Asp Ile Leu Asp Asn Phe
 275 280 285

Asn Leu Leu Pro Asp Thr Gln Glu Arg Phe Tyr Ala Ser Val Ile Ile
 290 295 300

Gln Asn Leu Pro Ala Leu Asn Ser Ala Ile Asn Pro Leu Ile Tyr Cys
 305 310 315 320

Val Phe Ser Ser Ser Ile Ser Phe Pro Cys Arg Val Ile Arg Leu Arg
 325 330 335

Gln Leu Gln Glu Ala Ala Leu Met Leu Cys Pro Gln Arg Glu Asn Trp
 340 345 350

Lys Gly Thr Trp Pro Gly Val Pro Ser Trp Ala Leu Pro Arg
 355 360 365

<210> 8

<211> 814

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (129)..(410)

<400> 8

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ggaggcaagc tggactccct cactcagctg caggagcaag gacagtgagg ctcaacccccg      120
cctgagcc atg cca gcc aac ttc aca gag ggc agc ttc gat tcc agt ggg      170
      Met Pro Ala Asn Phe Thr Glu Gly Ser Phe Asp Ser Ser Gly
      1             5             10

acc ggg cag acg ctg gat tct tcc cca gtg gct tgc act gaa aca gtg      218
Thr Gly Gln Thr Leu Asp Ser Ser Pro Val Ala Cys Thr Glu Thr Val
15             20             25             30

act ttt act gaa gtg gtg gaa gga aag gaa tgg ggt tcc ttc tac tac      266
Thr Phe Thr Glu Val Val Glu Gly Lys Glu Trp Gly Ser Phe Tyr Tyr
            35             40             45

tcc ttt aag act gag caa ttg ata act ctg tgg gtc ctc ttt gtt ttt      314
Ser Phe Lys Thr Glu Gln Leu Ile Thr Leu Trp Val Leu Phe Val Phe
            50             55             60

acc att gtt gga aac tcc gtt gtg ctt ttt tcc aca tgg agg aga aag      362
Thr Ile Val Gly Asn Ser Val Val Leu Phe Ser Thr Trp Arg Arg Lys
            65             70             75

aag aag tca aga atg acc ttc ttt gtg act cag ctg gcc atc aca gta      410
Lys Lys Ser Arg Met Thr Phe Phe Val Thr Gln Leu Ala Ile Thr Val
            80             85             90

taacaagccc acctgcttga gctgggctgc agtggccagg gtaaacaatcc aaggcaccag      470
tgaaaaatac agagaaggta aaaggagcaa gagttctgaa gatggaacct gggatggggg      530
aaagtttctt caatctttcc taccaacaag aactccaatt tttcactcct ataaccgtag      590
aagtagaggt aattaggatc atccagcaaa tgcttagagg caaatatccc tggatgagga      650
tgccacagct tattttcatt atatttcttc gattacagtg tggtaatgca tgttgtatgg      710
aactacatat tctttcagaa tgaaaggatt tagagggtggc aagaatatca gcttgaaatt      770
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<210> 9

<211> 94

<212> PRT

<213> Homo sapiens

<400> 9

Met Pro Ala Asn Phe Thr Glu Gly Ser Phe Asp Ser Ser Gly Thr Gly
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Gln Thr Leu Asp Ser Ser Pro Val Ala Cys Thr Glu Thr Val Thr Phe
 20 25 30

Thr Glu Val Val Glu Gly Lys Glu Trp Gly Ser Phe Tyr Tyr Ser Phe
 35 40 45

Lys Thr Glu Gln Leu Ile Thr Leu Trp Val Leu Phe Val Phe Thr Ile
 50 55 60

Val Gly Asn Ser Val Val Leu Phe Ser Thr Trp Arg Arg Lys Lys Lys
 65 70 75 80

Ser Arg Met Thr Phe Phe Val Thr Gln Leu Ala Ile Thr Val
 85 90

<210> 10

<211> 1463

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (129)..(602)

<400> 10

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ggaggcaagc tggactccct cactcagctg caggagcaag gacagtgagg ctcaacccccg 120

cctgagcc atg cca gcc aac ttc aca gag ggc agc ttc gat tcc agt ggg 170

Met Pro Ala Asn Phe Thr Glu Gly Ser Phe Asp Ser Ser Gly
 1 5 10

acc ggg cag acg ctg gat tct tcc cca gtg gct tgc act gaa aca gtg Thr Gly Gln Thr Leu Asp Ser Ser Pro Val Ala Cys Thr Glu Thr Val 15 20 25 30	218
act ttt act gaa gtg gtg gaa gga aag gaa tgg ggt tcc ttc tac tac Thr Phe Thr Glu Val Val Glu Gly Lys Glu Trp Gly Ser Phe Tyr Tyr 35 40 45	266
tcc ttt aag act gag caa ttg ata act ctg tgg gtc ctc ttt gtt ttt Ser Phe Lys Thr Glu Gln Leu Ile Thr Leu Trp Val Leu Phe Val Phe 50 55 60	314
acc att gtt gga aac tcc gtt gtg ctt ttt tcc aca tgg agg aga aag Thr Ile Val Gly Asn Ser Val Val Leu Phe Ser Thr Trp Arg Arg Lys 65 70 75	362
aag aag tca aga atg acc ttc ttt gtg act cag ctg gcc atc aca ggt Lys Lys Ser Arg Met Thr Phe Phe Val Thr Gln Leu Ala Ile Thr Gly 80 85 90	410
tgt gct gct cta cgc ctc tac cta cgt cct ggt gtc cct cag cat aga Cys Ala Ala Leu Arg Leu Tyr Leu Arg Pro Gly Val Pro Gln His Arg 95 100 105 110	458
cag ata cca tgc cat cgt cta ccc cat gaa gtt cct tca agg aga aaa Gln Ile Pro Cys His Arg Leu Pro His Glu Val Pro Ser Arg Arg Lys 115 120 125	506
gca agc cag ggt cct cat tgt gat cgc ctg gag cct gtc ttt tct gtt Ala Ser Gln Gly Pro His Cys Asp Arg Leu Glu Pro Val Phe Ser Val 130 135 140	554
ctc cat tcc cac cct gat cat att tgg gaa gag gac act gtc caa cgg Leu His Ser His Pro Asp His Ile Trp Glu Glu Asp Thr Val Gln Arg 145 150 155	602
tgaagtgcag tgctgggccc tgtggcctga cgactcctac tggaccccat acatgaccat	662
cgtggccttc ctggtgtact tcatccctct gacaatcatc agcatcatgt atggcattgt	722
gatccgaact atttggatta aaagcaaaac ctacgaaaca gtgatttcca actgctcaga	782
tgggaaactg tgcagcagct ataaccgagg actcatctca aaggcaaaaa tcaaggctat	842
caagtatagc atcatcatca ttcttgccct catctgctgt tggagtccat acttcctgtt	902
tgacattttg gacaatttca acctccttcc agacaccag gagcgtttct atgcctctgt	962
gatcattcag aacctgccag cattgaatag tgccatcaac cccctcatct actgtgtctt	1022
cagcagctcc atctctttcc cctgcaggga gcaaagatca caggattcca gaatgaogtt	1082
ccgggagaga actgagaggc atgagatgca gattctgtcc aagccagaat tcatctagac	1142
cctagggcag tgccagtgt aggtgagca ccatcagctc tcccagggtcc ttgtcacctg	1202
cttgggcacg tgcattggaac ccgagccaac ttcacccac cctcgtcatt acctgggaga	1262
tgcacaagac aaatgttcta atgactgcat gcaactgctta agtattggcc aacacgaact	1322
ccccagttat tcatgccagc caggaaggaa acgccttcct tccccacat tcccagccct	1382

ccttcccact ggccagcacc tgaacccagt gaacacaggc attagtgggc cagggtcctg 1442
gcttggagcc agtgagtaga c 1463

<210> 11

<211> 158

<212> PRT

<213> Homo sapiens

<400> 11

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Gln Thr Leu Asp Ser Ser Pro Val Ala Cys Thr Glu Thr Val Thr Phe
20 25 30

Thr Glu Val Val Glu Gly Lys Glu Trp Gly Ser Phe Tyr Tyr Ser Phe
35 40 45

Lys Thr Glu Gln Leu Ile Thr Leu Trp Val Leu Phe Val Phe Thr Ile
50 55 60

Val Gly Asn Ser Val Val Leu Phe Ser Thr Trp Arg Arg Lys Lys Lys
65 70 75 80

Ser Arg Met Thr Phe Phe Val Thr Gln Leu Ala Ile Thr Gly Cys Ala
85 90 95

Ala Leu Arg Leu Tyr Leu Arg Pro Gly Val Pro Gln His Arg Gln Ile
100 105 110

Pro Cys His Arg Leu Pro His Glu Val Pro Ser Arg Arg Lys Ala Ser
115 120 125

Gln Gly Pro His Cys Asp Arg Leu Glu Pro Val Phe Ser Val Leu His
130 135 140

Ser His Pro Asp His Ile Trp Glu Glu Asp Thr Val Gln Arg
145 150 155

<210> 12

<211> 1473

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (129)..(536)

<400> 12

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cctgagcc atg cca gcc aac ttc aca gag ggc agc ttc gat tcc agt ggg      170
      Met Pro Ala Asn Phe Thr Glu Gly Ser Phe Asp Ser Ser Gly
        1             5             10

acc ggg cag acg ctg gat tct tcc cca gtg gct tgc act gaa aca gtg      218
Thr Gly Gln Thr Leu Asp Ser Ser Pro Val Ala Cys Thr Glu Thr Val
15             20             25             30

act ttt act gaa gtg gtg gaa gga aag gaa tgg ggt tcc ttc tac tac      266
Thr Phe Thr Glu Val Val Glu Gly Lys Glu Trp Gly Ser Phe Tyr Tyr
            35             40             45

tcc ttt aag act gag caa ttg ata act ctg tgg gtc ctc ttt gtt ttt      314
Ser Phe Lys Thr Glu Gln Leu Ile Thr Leu Trp Val Leu Phe Val Phe
            50             55             60

acc att gtt gga aac tcc gtt gtg ctt ttt tcc aca tgg agg aga aag      362
Thr Ile Val Gly Asn Ser Val Val Leu Phe Ser Thr Trp Arg Arg Lys
            65             70             75

aag aag tca aga atg acc ttc ttt gtg act cag ctg gcc atc aca gat      410
Lys Lys Ser Arg Met Thr Phe Phe Val Thr Gln Leu Ala Ile Thr Asp
            80             85             90

tct ttc aca gga ctg gtc aac atc ttg aca gat att aat tgg cga ttc      458
Ser Phe Thr Gly Leu Val Asn Ile Leu Thr Asp Ile Asn Trp Arg Phe
95             100             105             110

act gga gac ttc acg gca cct gac ctg gtt tgc cga gtg gtc cgc tat      506
Thr Gly Asp Phe Thr Ala Pro Asp Leu Val Cys Arg Val Val Arg Tyr
            115             120             125

ttg cag aaa agc aag cca ggg tcc tca ttg tgcgcctg gagcctgtct      556
Leu Gln Lys Ser Lys Pro Gly Ser Ser Leu
            130             135

tttctgttct ccattccac cctgatcata tttgggaaga ggacactgtc caacggtgaa      616
gtgcagtgtc gggccctgtg gcctgacgac tcctactgga cccatacat gaccatcgtg      676

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gccttcctgg tgtacttcat ccctctgaca atcatcagca tcatgtatgg cattgtgatc 736
cgaactatatt ggattaaaag caaaacctac gaaacagtga tttccaactg ctcagatggg 796
aaactgtgca gcagctataa ccgaggactc atctcaaagg caaaaatcaa ggctatcaag 856
tatagcatca tcatcattct tgccttcatc tgctgttgga gtccatactt cctgtttgac 916
attttgagca atttcaacct ccttccagac acccaggagc gtttctatgc ctctgtgatc 976
attcagaacc tgccagcatt gaatagtgcc atcaaccccc tcatctactg tgtcttcagc 1036
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caagacaaat gttctaata gaatcatgac tgccttaagta ttggccaaca cgaactcccc 1336
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cccactggcc agcacctgaa ccagtgaaac acaggcatta gtgggtccagg gtcctggctt 1456
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<210> 13

<211> 136

<212> PRT

<213> Homo sapiens

<400> 13

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Met Pro Ala Asn Phe Thr Glu Gly Ser Phe Asp Ser Ser Gly Thr Gly
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Gln Thr Leu Asp Ser Ser Pro Val Ala Cys Thr Glu Thr Val Thr Phe
20           25           30

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Thr Glu Val Val Glu Gly Lys Glu Trp Gly Ser Phe Tyr Tyr Ser Phe
35           40           45

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Lys Thr Glu Gln Leu Ile Thr Leu Trp Val Leu Phe Val Phe Thr Ile
50           55           60

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Val Gly Asn Ser Val Val Leu Phe Ser Thr Trp Arg Arg Lys Lys Lys
65           70           75           80

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Ser Arg Met Thr Phe Phe Val Thr Gln Leu Ala Ile Thr Asp Ser Phe
 85 90 95

Thr Gly Leu Val Asn Ile Leu Thr Asp Ile Asn Trp Arg Phe Thr Gly
 100 105 110

Asp Phe Thr Ala Pro Asp Leu Val Cys Arg Val Val Arg Tyr Leu Gln
 115 120 125

Lys Ser Lys Pro Gly Ser Ser Leu
 130 135

<210> 14

<211> 1369

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (129)..(1043)

<400> 14

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cctgagcc atg cca gcc aac ttc aca gag ggc agc ttc gat tcc agt ggg 170
 Met Pro Ala Asn Phe Thr Glu Gly Ser Phe Asp Ser Ser Gly
 1 5 10

acc ggg cag acg ctg gat tct tcc cca gtg gct tgc act gaa aca gtg 218
 Thr Gly Gln Thr Leu Asp Ser Ser Pro Val Ala Cys Thr Glu Thr Val
 15 20 25 30

act ttt act gaa gtg gtg gaa gga aag gaa tgg ggt tcc ttc tac tac 266
 Thr Phe Thr Glu Val Val Glu Gly Lys Glu Trp Gly Ser Phe Tyr Tyr
 35 40 45

tcc ttt aag act gag caa ttg ata act ctg tgg gtc ctc ttt gtt ttt 314
 Ser Phe Lys Thr Glu Gln Leu Ile Thr Leu Trp Val Leu Phe Val Phe
 50 55 60

acc att gtt gga aac tcc gtt gtg ctt ttt tcc aca tgg agg aga aag 362
 Thr Ile Val Gly Asn Ser Val Val Leu Phe Ser Thr Trp Arg Arg Lys
 65 70 75

aag aag tca aga atg acc ttc ttt gtg act cag ctg gcc atc aca gaa 410
 Lys Lys Ser Arg Met Thr Phe Phe Val Thr Gln Leu Ala Ile Thr Glu

80	85	90	
aag caa gcc agg gtc ctc att gtg atc gcc tgg agc ctg tct ttt ctg Lys Gln Ala Arg Val Leu Ile Val Ile Ala Trp Ser Leu Ser Phe Leu 95 100 105 110			458
ttc tcc att ccc acc ctg atc ata ttt ggg aag agg aca ctg tcc aac Phe Ser Ile Pro Thr Leu Ile Ile Phe Gly Lys Arg Thr Leu Ser Asn 115 120 125			506
ggg gaa gtg cag tgc tgg gcc ctg tgg cct gac gac tcc tac tgg acc Gly Glu Val Gln Cys Trp Ala Leu Trp Pro Asp Asp Ser Tyr Trp Thr 130 135 140			554
cca tac atg acc atc gtg gcc ttc ctg gtg tac ttc atc cct ctg aca Pro Tyr Met Thr Ile Val Ala Phe Leu Val Tyr Phe Ile Pro Leu Thr 145 150 155			602
atc atc agc atc atg tat ggc att gtg atc cga act att tgg att aaa Ile Ile Ser Ile Met Tyr Gly Ile Val Ile Arg Thr Ile Trp Ile Lys 160 165 170			650
agc aaa acc tac gaa aca gtg att tcc aac tgc tca gat ggg aaa ctg Ser Lys Thr Tyr Glu Thr Val Ile Ser Asn Cys Ser Asp Gly Lys Leu 175 180 185 190			698
tgc agc agc tat aac cga gga ctc atc tca aag gca aaa atc aag gct Cys Ser Ser Tyr Asn Arg Gly Leu Ile Ser Lys Ala Lys Ile Lys Ala 195 200 205			746
atc aag tat agc atc atc atc att ctt gcc ttc atc tgc tgt tgg agt Ile Lys Tyr Ser Ile Ile Ile Ile Leu Ala Phe Ile Cys Cys Trp Ser 210 215 220			794
cca tac ttc ctg ttt gac att ttg gac aat ttc aac ctc ctt cca gac Pro Tyr Phe Leu Phe Asp Ile Leu Asp Asn Phe Asn Leu Leu Pro Asp 225 230 235			842
acc cag gag cgt ttc tat gcc tct gtg atc att cag aac ctg cca gca Thr Gln Glu Arg Phe Tyr Ala Ser Val Ile Ile Gln Asn Leu Pro Ala 240 245 250			890
ttg aat agt gcc atc aac ccc ctc atc tac tgt gtc ttc agc agc tcc Leu Asn Ser Ala Ile Asn Pro Leu Ile Tyr Cys Val Phe Ser Ser Ser 255 260 265 270			938
atc tct ttc ccc tgc agg gag caa aga tca cag gat tcc aga atg acg Ile Ser Phe Pro Cys Arg Glu Gln Arg Ser Gln Asp Ser Arg Met Thr 275 280 285			986
ttc cgg gag aga act gag agg cat gag atg cag att ctg tcc aag cca Phe Arg Glu Arg Thr Glu Arg His Glu Met Gln Ile Leu Ser Lys Pro 290 295 300			1034
gaa ttc atc tagaccctag ggcagtgccg gtgctaggct gagcaccatc Glu Phe Ile 305			1083
agctctccca ggtccttgtc acctgcttgg gcacgtgcat ggaacccgag ccaacttcac			1143
cccacccctcg tcattacctg ggagatgcac aagacaaatg ttctaataatgac tgcataatgac			1203

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<210> 15

<211> 305

<212> PRT

<213> Homo sapiens

<400> 15

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Thr Glu Val Val Glu Gly Lys Glu Trp Gly Ser Phe Tyr Tyr Ser Phe
 35 40 45

Lys Thr Glu Gln Leu Ile Thr Leu Trp Val Leu Phe Val Phe Thr Ile
 50 55 60

Val Gly Asn Ser Val Val Leu Phe Ser Thr Trp Arg Arg Lys Lys Lys
 65 70 75 80

Ser Arg Met Thr Phe Phe Val Thr Gln Leu Ala Ile Thr Glu Lys Gln
 85 90 95

Ala Arg Val Leu Ile Val Ile Ala Trp Ser Leu Ser Phe Leu Phe Ser
 100 105 110

Ile Pro Thr Leu Ile Ile Phe Gly Lys Arg Thr Leu Ser Asn Gly Glu
 115 120 125

Val Gln Cys Trp Ala Leu Trp Pro Asp Asp Ser Tyr Trp Thr Pro Tyr
 130 135 140

Met Thr Ile Val Ala Phe Leu Val Tyr Phe Ile Pro Leu Thr Ile Ile
 145 150 155 160

Ser Ile Met Tyr Gly Ile Val Ile Arg Thr Ile Trp Ile Lys Ser Lys

165

170

175

Thr Tyr Glu Thr Val Ile Ser Asn Cys Ser Asp Gly Lys Leu Cys Ser
 180 185 190

Ser Tyr Asn Arg Gly Leu Ile Ser Lys Ala Lys Ile Lys Ala Ile Lys
 195 200 205

Tyr Ser Ile Ile Ile Ile Leu Ala Phe Ile Cys Cys Trp Ser Pro Tyr
 210 215 220

Phe Leu Phe Asp Ile Leu Asp Asn Phe Asn Leu Leu Pro Asp Thr Gln
 225 230 235 240

Glu Arg Phe Tyr Ala Ser Val Ile Ile Gln Asn Leu Pro Ala Leu Asn
 245 250 255

Ser Ala Ile Asn Pro Leu Ile Tyr Cys Val Phe Ser Ser Ser Ile Ser
 260 265 270

Phe Pro Cys Arg Glu Gln Arg Ser Gln Asp Ser Arg Met Thr Phe Arg
 275 280 285

Glu Arg Thr Glu Arg His Glu Met Gln Ile Leu Ser Lys Pro Glu Phe
 290 295 300

Ile
 305

<210> 16

<211> 1532

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (231)..(383)

<400> 16

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atccactgga tggagttact tctttcttaa gtgaggaggc taagatctgg agtgacttct	180
ccccagatTT ttgtatacct gactctgttt cagcatccgc ttcccaaaga atg cag	236
Met Gln	
1	
tgt gaa gca gga gct tat gtg aga aga aac gca ggg aga cag ttc agt	284
Cys Glu Ala Gly Ala Tyr Val Arg Arg Asn Ala Gly Arg Gln Phe Ser	
5 10 15	
cac tgc aat ctt cat gcc cat cag ttt ctt gtg aga aga aaa caa gag	332
His Cys Asn Leu His Ala His Gln Phe Leu Val Arg Arg Lys Gln Glu	
20 25 30	
ctc caa tct gtt aga tgg tat ttt gaa gca ggt ctt tgg gta aag gac	380
Leu Gln Ser Val Arg Trp Tyr Phe Glu Ala Gly Leu Trp Val Lys Asp	
35 40 45 50	
acc tagaccaggt gaagggtcatg gtgattatta ttggacaatg ggacatcact	433
Thr	
ctgctatTTTg aacaaataag actTTTTcct gacatgcac tggaggcagg tcaaagctcc	493
aggccaactc caagtttctg atgggggtctc tagccaatgg aaggcttctt ctcttcaat	553
tgctgactc ttcaggactc ttaaatactg caaagtgaga aaatgagaca gggtgactg	613
agggctgtta gccagacaga gtctcgaact ggaagtccat ctagatgttt tgcataagag	673
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tatgaaaaat ccatttctta tttcccataa tgTTTctgaa atgtcttagc agtgcataga	853
gacagcatgt catcattttc tagggactgt gtgttattgc atttttctta gggaagatct	913
tttctaggtc acctgctcct tcgctaaagc tctgaccaat ctagcttgct aacctgtgac	973
tccattttcc taagtctga gagagaaaaa cgctttgcag caaattatgc caggcatcct	1033
tgtgtctaaa tgaaaaaagg aaaaagcctc cttccttccc tctgttgaga agtgcacggt	1093
ccacatatgc atgcacagca tatactgtga gggatatttg agtcccttg gttgctttga	1153
taactggcca gggtgctgtt ctatttttcc acattctatt aatcctccta caggcagtta	1213
ttaggtattg agtgctcaca caccctggc atagtcacca catgccatta gctccagata	1273
aacttcaga aaaaagtcca tccccactt ctctcagctg cctgccaacg ctggacacct	1333
tctaccaag ccagcaggac agagaaaagc ctgggcttta agatcaaaca aacacagctt	1393
caaattagga ctctgtcact tctgtgtac tgggcacttt gctgagtatg tggtttctca	1453
tctgtaaaac agagaaagat gattatctcc caatctttct atgttatatg tttgaattaa	1513
ataagggtact ctccatgaa	1532

<210> 17

<211> 51

<212> PRT

<213> Homo sapiens

<400> 17

Met Gln Cys Glu Ala Gly Ala Tyr Val Arg Arg Asn Ala Gly Arg Gln
 1 5 10 15

Phe Ser His Cys Asn Leu His Ala His Gln Phe Leu Val Arg Arg Lys
 20 25 30

Gln Glu Leu Gln Ser Val Arg Trp Tyr Phe Glu Ala Gly Leu Trp Val
 35 40 45

Lys Asp Thr
 50

<210> 18

<211> 1407

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (244) .. (402)

<400> 18

gacacagaga agaccactcc cacctccccg agtgcaaggt gtgaagggac agatcttttta 60

accatgcctg cccctttata cttgctgttc atagaattgc aactgaaagt gaccatgagg 120

atccactgga tggagttact tctttcttaa gtgaggaggc taagatctga gttcttcaca 180

tctctctgta gataaaattt ccggtctggt ttcacattcc tctgtcagaa gaactttctt 240

taa tgt ttc tta aag tac agg tct gct gct tat gtg aga aga aac gca 288
 Cys Phe Leu Lys Tyr Arg Ser Ala Ala Tyr Val Arg Arg Asn Ala
 1 5 10 15

ggg aga cag ttc agt cac tgc aat ctt cat gcc cat cag ttt ctt gtg 336

Gly	Arg	Gln	Phe	Ser	His	Cys	Asn	Leu	His	Ala	His	Gln	Phe	Leu	Val	
				20					25					30		
aga	aga	aaa	caa	gag	ctc	caa	tct	gtt	aga	tgg	tat	ttt	gaa	gca	ggg	384
Arg	Arg	Lys	Gln	Glu	Leu	Gln	Ser	Val	Arg	Trp	Tyr	Phe	Glu	Ala	Gly	
			35					40					45			
ctt	tgg	gta	aag	gac	acc	tag	acccag	tga	gggtcat	gtg	attatta					432
Leu	Trp	Val	Lys	Asp	Thr											
			50													
ttggaca	aatg	ggacat	cact	ctgct	attaa	gtgag	aaaat	gagac	agggt	gcact	gaggg					492
ctgttag	cca	gacag	agtct	cgaact	ggaa	gtccat	ctag	atgtttt	gca	taagaga	aatg					552
gaaaca	atct	gtctgt	gatt	taggg	acata	ctctgg	cagc	aatat	gggaa	tacagt	tttca					612
atcctc	atta	acaaa	acagg	tatga	aatac	atattt	tattt	agta	agggtgc	cagct	gtatg					672
aaaaat	ccat	ttctt	tatttc	ccata	atggt	tctga	aatgt	cttag	cagtgc	catag	agaca					732
gcatgt	catc	atctt	ctagg	gactgt	gtgt	tattgc	attt	ttcct	aggg	agatc	ttttc					792
taggtc	acct	gctcct	tgc	taaag	ctctg	accaat	ctag	cttgct	aacc	tgtg	actcca					852
ttttc	ctaag	tcctg	agaga	gaaaa	acgct	ttgcag	caaa	ttatg	ccagg	catc	cttgtg					912
tctaa	atgaa	aaaag	gaaaa	agcct	ccttc	cttcct	ctg	ttgaga	agtgc	cacgg	tccac					972
atatgc	atgc	acagc	atata	ctgtg	aggggt	atttgc	cagtc	ccttgg	ggttg	ctttg	ataac					1032
tggcc	agggt	gctgt	tctat	ttttc	acat	tctatta	atc	ctcct	acagg	cagtt	attag					1092
gtattg	agtgc	ctcac	acacc	cctgg	catag	tcacc	acatg	ccatt	agctc	cagata	aaact					1152
tccaga	aaaaa	agtcc	atccc	ccactt	ctct	cagctg	cctg	ccaac	gctgg	acac	cttctc					1212
accaag	ccag	caggac	agag	aaaag	cctgg	gcttta	agat	caaaca	aaaca	cagctt	caaa					1272
ttagg	actct	gtcact	tcct	gtgt	actggg	cacttt	gctg	agtat	gtgg	ttct	catctg					1332
taaaac	agag	aaagat	gatt	atctccc	aat	ctttct	atgt	tatat	gtttg	aattaa	ataa					1392
ggtact	ctcc	atgaa														1407

<210> 19

<211> 53

<212> PRT

<213> Homo sapiens

<400> 19

Cys	Phe	Leu	Lys	Tyr	Arg	Ser	Ala	Ala	Tyr	Val	Arg	Arg	Asn	Ala	Gly
1				5					10					15	

Arg Gln Phe Ser His Cys Asn Leu His Ala His Gln Phe Leu Val Arg
 20 25 30

Arg Lys Gln Glu Leu Gln Ser Val Arg Trp Tyr Phe Glu Ala Gly Leu
 35 40 45

Trp Val Lys Asp Thr
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<210> 20

<211> 341

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (146)..(328)

<400> 20

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agacttttggg ggactactgg aaaggagtga cttctcccca gattttttgta tacctgactc 120

tgtttcagca tccgcttccc aaaga atg cag tgt gaa gca gga gct tat gtg 172
 Met Gln Cys Glu Ala Gly Ala Tyr Val
 1 5

aga aga aac gca ggg aga cag ttc agt cac tgc aat ctt cat gcc cat 220
 Arg Arg Asn Ala Gly Arg Gln Phe Ser His Cys Asn Leu His Ala His
 10 15 20 25

cag ttt ctt gtg aga aga aaa caa gtg gat ata cac tgt tcc aag cag 268
 Gln Phe Leu Val Arg Arg Lys Gln Val Asp Ile His Cys Ser Lys Gln
 30 35 40

cat gtg ttg aaa aga ttt gtc ttt tcc cca ttt aat ggt ctt ggt acc 316
 His Val Leu Lys Arg Phe Val Phe Ser Pro Phe Asn Gly Leu Gly Thr
 45 50 55

ttt ctc aaa aat tgaccatata tga 341
 Phe Leu Lys Asn
 60

<210> 21

<211> 61

<212> PRT

<213> Homo sapiens

<400> 21

Met Gln Cys Glu Ala Gly Ala Tyr Val Arg Arg Asn Ala Gly Arg Gln
 1 5 10 15

Phe Ser His Cys Asn Leu His Ala His Gln Phe Leu Val Arg Arg Lys
 20 25 30

Gln Val Asp Ile His Cys Ser Lys Gln His Val Leu Lys Arg Phe Val
 35 40 45

Phe Ser Pro Phe Asn Gly Leu Gly Thr Phe Leu Lys Asn
 50 55 60

<210> 22

<211> 710

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (175)..(291)

<400> 22

tctaggactc agaaatatag atgttagtaa gagcaaacag acataacaga taacacatac 60

aaagtgccta ccacatgcta accactgctg caggcacttt ctatagaaga actaatttaa 120

tcattcaccat aaccctatgg ggtagatgat atttttacaa cctccatttt acag atg 177
 Met
 1

aag aaa ctg aag cat aga cct gct tat gtg aga aga aac gca ggg aga 225
 Lys Lys Leu Lys His Arg Pro Ala Tyr Val Arg Arg Asn Ala Gly Arg
 5 10 15

cag ttc agt cac tgc aat ctt cat gcc cat cag ttt ctt gtg aga aga 273
 Gln Phe Ser His Cys Asn Leu His Ala His Gln Phe Leu Val Arg Arg
 20 25 30

aaa caa gaa aac aag gac tgaaatccac acaggaaggt ggcagtgaac 321
 Lys Gln Glu Asn Lys Asp

35

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tccacagacg gacctggacg cctcaacact cctggcctta cctcccttgc tgaacgtctc   381
aagttttctct gcgttcagga ctggcaacgc ctgcttcctc ctctgagctg tcaagtagga   441
agtccggggt gctctgctag aaagagaagt catgtgcagg agcactgagg catcccaggt   501
gtgacactct tccacctaga gcattccgtc tctcatcctc tgccatgtga cgctgggctt   561
ctttaacaaa ttaatcccaa gtgcaagaca tttatttctt ctgtacctaa tgacctgagc   621
aatccttctc tgetgaacct ggtagtgtca tctttagaag tgaagacaca attaacacat   681
ggtcatttct tcattatata gttgttact                                     710

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<210> 23

<211> 39

<212> PRT

<213> Homo sapiens

<400> 23

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Met Lys Lys Leu Lys His Arg Pro Ala Tyr Val Arg Arg Asn Ala Gly
1           5           10           15

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Arg Gln Phe Ser His Cys Asn Leu His Ala His Gln Phe Leu Val Arg
          20           25           30

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Arg Lys Gln Glu Asn Lys Asp
          35

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<210> 24

<211> 949

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (175)..(366)

<400> 24

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20

25

30

Arg Lys Gln Asp Trp Gln Arg Leu Leu Pro Pro Leu Ser Cys Gln Val
 35 40 45

Gly Ser Pro Gly Cys Ser Ala Arg Lys Arg Ser His Val Gln Glu His
 50 55 60

<210> 26

<211> 1068

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (176)..(367)

<400> 26

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 caaagtgcct accacatgct aaccactgct gcaggcactt tctatagaag aactaattta 120
 atcatcacca taaccctatg gggtagatga tattttttaca acctccattt tacag atg 178
 Met
 1

aag aaa ctg aag cat aga cct gct tat gtg aga aga aac gca ggg aga 226
 Lys Lys Leu Lys His Arg Pro Ala Tyr Val Arg Arg Asn Ala Gly Arg
 5 10 15

cag ttc agt cac tgc aat ctt cat gcc cat cag ttt ctt gtg aga aga 274
 Gln Phe Ser His Cys Asn Leu His Ala His Gln Phe Leu Val Arg Arg
 20 25 30

aaa caa gac tgg caa cgc ctg ctt cct cct ctg agc tgt caa gta gga 322
 Lys Gln Asp Trp Gln Arg Leu Leu Pro Pro Leu Ser Cys Gln Val Gly
 35 40 45

agt ccg ggc tgc tct gct aga aag aga agt cat gtg cag gag cac 367
 Ser Pro Gly Cys Ser Ala Arg Lys Arg Ser His Val Gln Glu His
 50 55 60

tgaggcatcc caggtgtgac actcttccac ctagagcatt ccgtctctca tctctgcca 427

tgtagcaaac tgctatgcat ccttcagctg caagggattg aatgctatca acaaccatac 487

aagtggagaa gcagatgctt ccctagctga gcctcagctc tgttttcctc agtcctaggg 547

gcagattcta atttggtaca gaaaaaaaaa gtactcctgc caattcccat cctggaatga 607

ctgaagaaaa gaaaatgcat gtgattatTTt taaaggcttt ttgatggaat tgctacaact 667
tggtgcatgc ctgctcctaa aagaaatact caggaattgt ctcataaagt cctcacctac 727
tggcaaaaac aagatgttct actcccaggt tgactttttc aagccccaag atgttgagtc 787
agccattctc caaggatctc gatttccttt taatggaaaa taacattaaa caccaaatat 847
aagcctcgct gtcccacatg cgtattgggg acaagatgaa acctgcttcc aggctacttt 907
ggcagcagaa ctgaaaaagg ctttttttcc agatatatga tttctcatcg acagggttgc 967
acagccctct ttattgttcg tgtaaatac acccttggat ctgaacaata cacaccagga 1027
caattgtgtg caacagttct acaaactgat atttctaatt a 1068

<210> 27

<211> 64

<212> PRT

<213> Homo sapiens

<400> 27

Met Lys Lys Leu Lys His Arg Pro Ala Tyr Val Arg Arg Asn Ala Gly
1 5 10 15

Arg Gln Phe Ser His Cys Asn Leu His Ala His Gln Phe Leu Val Arg
20 25 30

Arg Lys Gln Asp Trp Gln Arg Leu Leu Pro Pro Leu Ser Cys Gln Val
35 40 45

Gly Ser Pro Gly Cys Ser Ala Arg Lys Arg Ser His Val Gln Glu His
50 55 60

<210> 28

<211> 799

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (175) .. (363)

<400> 28

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tcatacccat aaccctatgg ggtagatgat atttttacaa cctccatttt acag atg      177
                                         Met
                                         1
aag aaa ctg aag cat aga cct gct tat gtg aga aga aac gca ggg aga      225
Lys Lys Leu Lys His Arg Pro Ala Tyr Val Arg Arg Asn Ala Gly Arg
      5                               10                               15

cag ttc agt cac tgc aat ctt cat gcc cat cag ttt ctt gtg aga aga      273
Gln Phe Ser His Cys Asn Leu His Ala His Gln Phe Leu Val Arg Arg
      20                               25                               30

aaa caa agc aaa ctg cta tgc atc ctt cag ctg caa ggg att gaa tgc      321
Lys Gln Ser Lys Leu Leu Cys Ile Leu Gln Leu Gln Gly Ile Glu Cys
      35                               40                               45

tat caa caa cca tac aag tgg aga agc aga tgc ttc cct agc      363
Tyr Gln Gln Pro Tyr Lys Trp Arg Ser Arg Cys Phe Pro Ser
      50                               55                               60

tgagcctcag gctttttgat ggaattgcta caacttggtg catgcctgct cctaaaagaa      423
atactcagga attgtctcat aaagtcctca cctactggca aaaacaagat gttctactcc      483
caggttgact ttttcaagcc ccaagatggt gagtcagcca ttctccaagg atctcgattt      543
ccttttaatg gaaaataaca ttaaacacca aatataagcc tcgctgtccc acatgcgtat      603
tgggggacaag atgaaacctg cttccaggct actttggcag cagaactgaa aaaggctttt      663
tttcagata tatgatttct catcgacagg gttgcacagc cctctttatt gttcgtgtaa      723
atgacaccct tggatctgaa caatacacac caggacaatt gtgtgcaaca gttctacaaa      783
ctgatatttc taatta      799

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<210> 29

<211> 63

<212> PRT

<213> Homo sapiens

<400> 29

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Met Lys Lys Leu Lys His Arg Pro Ala Tyr Val Arg Arg Asn Ala Gly
1           5           10           15

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Arg Gln Phe Ser His Cys Asn Leu His Ala His Gln Phe Leu Val Arg
 20 25 30

Arg Lys Gln Ser Lys Leu Leu Cys Ile Leu Gln Leu Gln Gly Ile Glu
 35 40 45

Cys Tyr Gln Gln Pro Tyr Lys Trp Arg Ser Arg Cys Phe Pro Ser
 50 55 60

<210> 30

<211> 834

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (30) .. (251)

<400> 30

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 Met Pro Leu Asp Leu Met Leu Glu
 1 5

aga ctt aag act ttg ggg gac tac tgg aaa gct tat gtg aga aga aac 101
 Arg Leu Lys Thr Leu Gly Asp Tyr Trp Lys Ala Tyr Val Arg Arg Asn
 10 15 20

gca ggg aga cag ttc agt cac tgc aat ctt cat gcc cat cag ttt ctt 149
 Ala Gly Arg Gln Phe Ser His Cys Asn Leu His Ala His Gln Phe Leu
 25 30 35 40

gtg aga aga aaa caa gac tgg caa cgc ctg ctt cct cct ctg agc tgt 197
 Val Arg Arg Lys Gln Asp Trp Gln Arg Leu Leu Pro Pro Leu Ser Cys
 45 50 55

caa gta gga agt ccg ggc tgc tct gct aga aag aga agt cat gtg cag 245
 Gln Val Gly Ser Pro Gly Cys Ser Ala Arg Lys Arg Ser His Val Gln
 60 65 70

gag cac tgaggcatcc caggtgtgac actcttccac ctagagcatt ccgtctctca 301
 Glu His

tcctctgccca tgtagcaaac tgctatgcat ccttcagctg caagggattg aatgctatca 361

acaaccatac aagtggagaa gcagatgctt ccctagctga gcctcaggct ttttgatgga 421

attgctacaa cttgggtgcat gcctgctcct aaaagaaata ctcaggaatt gtctcataaa 481


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gtcctcacct actggcaaaa acaagatggt ctactcccag gttgactttt tcaagcccca 541
agatgttgag tcagccattc tccaaggatc tcgatttcct tttaatggaa aataacatta 601
aacaccaa ataaagcctcg ctgtcccaca tgcgtattgg ggacaagatg aaacctgctt 661
ccaggctact ttggcagcag aactgaaaaa ggcttttttt ccagatatat gatttctcat 721
cgacaggggt gcacagccct ctttattggt cgtgtaa atg acacccttgg atctgaacaa 781
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<210> 31

<211> 74

<212> PRT

<213> Homo sapiens

<400> 31

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Met Pro Leu Asp Leu Met Leu Glu Arg Leu Lys Thr Leu Gly Asp Tyr
1           5           10           15

```

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Trp Lys Ala Tyr Val Arg Arg Asn Ala Gly Arg Gln Phe Ser His Cys
          20           25           30

```

```

Asn Leu His Ala His Gln Phe Leu Val Arg Arg Lys Gln Asp Trp Gln
          35           40           45

```

```

Arg Leu Leu Pro Pro Leu Ser Cys Gln Val Gly Ser Pro Gly Cys Ser
          50           55           60

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Ala Arg Lys Arg Ser His Val Gln Glu His
65           70

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<210> 32

<211> 550

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (175) .. (366)

<400> 32

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aaagtcgcta	ccacatgcta	accactgctg	caggcacttt	ctatagaaga	actaatttaa	120
tcatcaccat	aaccctatgg	ggtagatgat	atTTTTTaa	cctccatttt	acag atg	177
					Met	
					1	
aag aaa ctg aag cat aga cct gct tat gtg aga aga aac gca ggg aga						225
Lys Lys Leu Lys His Arg Pro Ala Tyr Val Arg Arg Asn Ala Gly Arg						
	5			10	15	
cag ttc agt cac tgc aat ctt cat gcc cat cag ttt ctt gtg aga aga						273
Gln Phe Ser His Cys Asn Leu His Ala His Gln Phe Leu Val Arg Arg						
	20			25	30	
aaa caa gac tgg caa cgc ctg ctt cct cct ctg agc tgt caa gta gga						321
Lys Gln Asp Trp Gln Arg Leu Leu Pro Pro Leu Ser Cys Gln Val Gly						
	35			40	45	
agt ccg ggc tgc tct gct aga aag aga agt cat gtg cag gag cac						366
Ser Pro Gly Cys Ser Ala Arg Lys Arg Ser His Val Gln Glu His						
50				55	60	
tgaggcatcc	caggtgtgac	actcttccac	ctagagcatt	ccgtctctca	tcctctgcc	426
tgtgccatgt	tttgaaccac	tagattagag	ggtcaagcaa	tttcttgga	ttttactctg	486
aattctacgt	agaccatttt	catgtgtata	cctcctctga	gtcaccctca	ggtagggaca	546
tttt						550

<210> 33

<211> 64

<212> PRT

<213> Homo sapiens

<400> 33

Met Lys Lys Leu Lys His Arg Pro Ala Tyr Val Arg Arg Asn Ala Gly
1 5 10 15

Arg Gln Phe Ser His Cys Asn Leu His Ala His Gln Phe Leu Val Arg
20 25 30

Arg Lys Gln Asp Trp Gln Arg Leu Leu Pro Pro Leu Ser Cys Gln Val
35 40 45

Gly Ser Pro Gly Cys Ser Ala Arg Lys Arg Ser His Val Gln Glu His
 50 55 60

<210> 34

<211> 376

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (175) .. (363)

<400> 34

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aaagtgccta ccacatgcta accactgctg caggcacttt ctatagaaga actaatttaa 120

tcatcaccat aaccctatgg ggtagatgat attttttacaa cctccatttt acag atg 177
 Met
 1

aag aaa ctg aag cat aga cct gct tat gtg aga aga aac gca ggg aga 225
 Lys Lys Leu Lys His Arg Pro Ala Tyr Val Arg Arg Asn Ala Gly Arg
 5 10 15

cag ttc agt cac tgc aat ctt cat gcc cat cag ttt ctt gtg aga aga 273
 Gln Phe Ser His Cys Asn Leu His Ala His Gln Phe Leu Val Arg Arg
 20 25 30

aaa caa gtg gat ata cac tgt tcc aag cag cat gtg ttg aaa aga ttt 321
 Lys Gln Val Asp Ile His Cys Ser Lys Gln His Val Leu Lys Arg Phe
 35 40 45

gtc ttt tcc cca ttt aat ggt ctt ggt acc ttt ctc aaa aat 363
 Val Phe Ser Pro Phe Asn Gly Leu Gly Thr Phe Leu Lys Asn
 50 55 60

tgaccatata tga 376

<210> 35

<211> 63

<212> PRT

<213> Homo sapiens

<400> 35

Met Lys Lys Leu Lys His Arg Pro Ala Tyr Val Arg Arg Asn Ala Gly
 1 5 10 15

Arg Gln Phe Ser His Cys Asn Leu His Ala His Gln Phe Leu Val Arg
 20 25 30

Arg Lys Gln Val Asp Ile His Cys Ser Lys Gln His Val Leu Lys Arg
 35 40 45

Phe Val Phe Ser Pro Phe Asn Gly Leu Gly Thr Phe Leu Lys Asn
 50 55 60

<210> 36

<211> 369

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (146)..(247)

<400> 36

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agactttggg ggactactgg aaaggagtga cttctcccca gattttttgta tacctgactc 120

tgtttcagca tccgcttccc aaaga atg cag tgt gaa gca gga gct tat gtg 172
 Met Gln Cys Glu Ala Gly Ala Tyr Val
 1 5

aga aga aac gca ggg aga cag ttc agt cac tgc aat ctt cat gcc cat 220
 Arg Arg Asn Ala Gly Arg Gln Phe Ser His Cys Asn Leu His Ala His
 10 15 20 25

cag ttt ctt gtg aga aga aaa caa gtt taggaaaact tccacacct 267
 Gln Phe Leu Val Arg Arg Lys Gln Val
 30

tctttgttgg gatgttctct ggactaatga ctccaggcga gaccaccgtt gatcatgaac 327

tcactttgaa acagaagctg gggttggaag actggagcta ct 369

<210> 37

<211> 34

<212> PRT

<213> Homo sapiens

<400> 37

Met Gln Cys Glu Ala Gly Ala Tyr Val Arg Arg Asn Ala Gly Arg Gln
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Phe Ser His Cys Asn Leu His Ala His Gln Phe Leu Val Arg Arg Lys
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Gln Val

<210> 38

<211> 512

<212> DNA

<213> Homo sapiens

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<400> 38

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 Met Gln Cys Glu Ala Gly Ala Tyr Val Arg Arg Asn Ala Gly Arg Gln
 1 5 10 15

ttc agt cac tgc aat ctt cat gcc cat cag ttt ctt gtg aga aga aaa 157
 Phe Ser His Cys Asn Leu His Ala His Gln Phe Leu Val Arg Arg Lys
 20 25 30

caa gaa aac aag gac tgaaatccac acaggaaggt ggcagtgaac tccacagacg 212
 Gln Glu Asn Lys Asp
 35

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gcgttcaggt aatgtatagg agggttatga gggcagagaa ttctaagct cattagtaaa 332

ttgctcttca gaaaagtgtc ttgaagcaaa gctaatttcc tttcccaata tgagaagatt 392

tggccctacc agaaaaagga aatgatttga atgtgcgcca aaaaatatgt tttctttctt 452
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Met Gln Cys Glu Ala Gly Ala Tyr Val Arg Arg Asn Ala Gly Arg Gln
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Phe Ser His Cys Asn Leu His Ala His Gln Phe Leu Val Arg Arg Lys
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Gln Glu Asn Lys Asp
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 Met Gln Cys Glu Ala Gly Ala Tyr Val Arg Arg Asn Ala Gly Arg Gln
 1 5 10 15

ttc agt. cac tgc aat ctt cat gcc cat cag ttt ctt gtg aga aga aaa 157
 Phe Ser His Cys Asn Leu His Ala His Gln Phe Leu Val Arg Arg Lys
 20 25 30

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 Gln Asp Trp Gln Arg Leu Leu Pro Pro Leu Ser Cys Gln Val Gly Ser
 35 40 45

ccg ggc tgc tct gct aga aag aga agt cat gtg cag gag cac
 Pro Gly Cys Ser Ala Arg Lys Arg Ser His Val Gln Glu His
 50 55 60

247

tgaggcatcc caggtgtgac actcttccac ctagagcatt ccgtctctca tcctctgcca 307
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<211> 62

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<213> Homo sapiens

<400> 41

Met Gln Cys Glu Ala Gly Ala Tyr Val Arg Arg Asn Ala Gly Arg Gln
 1 5 10 15

Phe Ser His Cys Asn Leu His Ala His Gln Phe Leu Val Arg Arg Lys
 20 25 30

Gln Asp Trp Gln Arg Leu Leu Pro Pro Leu Ser Cys Gln Val Gly Ser
 35 40 45

Pro Gly Cys Ser Ala Arg Lys Arg Ser His Val Gln Glu His
 50 55 60